

PROJECT DESCRIPTION

I GENERAL

THIS PROJECT INVOLVES THE MODIFICATION OF AN EXISTING MAST ARM TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF TERMINAL ROAD AND SCOTT DRIVE/DAILY PARKING ENTRANCE IN ANNE ARUNDEL COUNTY. THE EXISTING PEDESTRIAN PHASE ACROSS TERMINAL DRIVE SHALL BE UPGRADED TO A COUNTDOWN PEDESTRIAN PHASE WITH AUDIBLE PUSHBUTTONS. TERMINAL ROAD IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION.

II. INTERSECTION OPERATION

- THE INTERSECTION SHALL CONTINUE TO OPERATE IN A NEMA SIX-PHASE, SEMI-ACTUATED MODE. WITH THE TERMINAL ROAD APPROACHES OPERATING CONCURRENTLY, THE EXCLUSIVE/ PERMISSIVE LEFT TURN PHASES FOR BOTH APPROACHES OF TERMINAL ROAD SHALL CONTINUE TO BE PROVIDED. THE PEDESTRIAN PHASE ACROSS TERMINAL ROAD SHALL NOW BE A COUNTDOWN PEDESTRIAN PHASE WITH AUDIBLE PUSHBUTTON ACTUATION. THE SCOTT DRIVE/ DAILY PARKING ENTRANCE APPROACHES SHALL ALSO CONTINUE TO RUN CONCURRENTLY. THE RIGHT-TURN OVERLAP PHASE FOR THE NORHTBOUND APPROACH OF SCOTT DRIVE SHALL REMAIN IN OPERATION.
- THE EXISTING FULL TRAFFIC EIGHT PHASE CONTROLLER WITH ALL NECESSARY EQUIPMENT HOUSED IN A NEMA SIZE 6 BASE MOUNTED CABINET SHALL BE UTILIZED AT THIS INTERSECTION.
- SHA SIGNAL SHOP SHALL INSTALL APS CONTROL UNIT INTO CONTROLLER CABINET. THE CONTRACTOR SHALL DELIVER THE CONTROL UNIT AND AUDIBLE PUSHBUTTONS TO THE SHA SIGNAL SHOP FOR TESTING.

III SPECIAL NOTES

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLES, TO THE APPROPRIATE TERMINALS AND SHALL PROPOERLY LABEL EACH CABLE.
- ALL UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC ONLY AND MAY NOT BE COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING MISS UTILITY PRIOR TO CONSTRUCTION SO THAT ALL UTILITIES MAY BE LOCATED IN THE FIELD. IF THE CONTRACTOR PERCEIVES A CONFLICT BETWEEN UTILITIES AND SIGNAL EQUIPMENT WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IMMEDIATELY SO THE CONTFLICT MAY BE RESOLVED.

EQUIPMENT LIST

A.EQUIPMENT TO BE SUPPLIED BY SHA

ITEM NO.	QUANTITY	DESCRIPTION
9571	4 SF	SHEET ALUMINUM MAST ARM / POLE MOUNTED SIGN - 4 EACH R10-3(1) SIGN (9"x15")

B.EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR

ITEM NO.	QUANTITY	DESCRIPTION
1001	1 EACH	MAINTENANCE OF TRAFFIC
2002	4 EACH	TEST PIT
6001	200 LF	STANDARD TYPE A COMBINATION CURB AND GUTTER 12 INCH GUTTER PAN 8 INCH DEPTH
6002	815 SF	5 INCH CONCRETE SIDEWALK
6003	64 SF	DETECTABLE WARNING SURFACE FOR CURB RAMPS
8002	1 EACH	2-WIRE CENTRAL CONTROL UNIT
8008	4 EACH	AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON STATION AND SIGNS
8009	4 EACH	BREAKAWAY PEDESTAL POLE (ANY SIZE)
8018	2 EACH	16" LED COUNTDOWN PEDESTRIAN SIGNAL HEAD
8027	1 EACH	REMOVE AND DISPOSE OF MATERIAL & EQUIPMENT (PER ASSIGNMENT)
8043	80 LF	UP TO 4 INCHES SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
8045	4 SF	INSTALL OVERHEAD OR GROUND MOUNTED SIGN (INCLUDING ALL HARDWARE)
8046	20 SF	REMOVE - RESET DECORATIVE BRICK SIDEWALK
8047	170 LF	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
8058	1160 LF	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG)
8060	575 LF	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)

C.EQUIPMENT TO BE REMOVED AND RETURNED TO SHA

ALL REMOVED SIGNAL MATERIAL SHALL BECOME THE PROPERTY OF THE CONTRACTOR

The contact persons for District #5 and SHA are as follows:

Ms. Kim Tran  
Assistant District Engineer - Traffic  
Phone: (410) 841-1019

Mr. Joe Geckle  
Assistant District Engineer - Maintenance  
Phone: (410) 841-1000

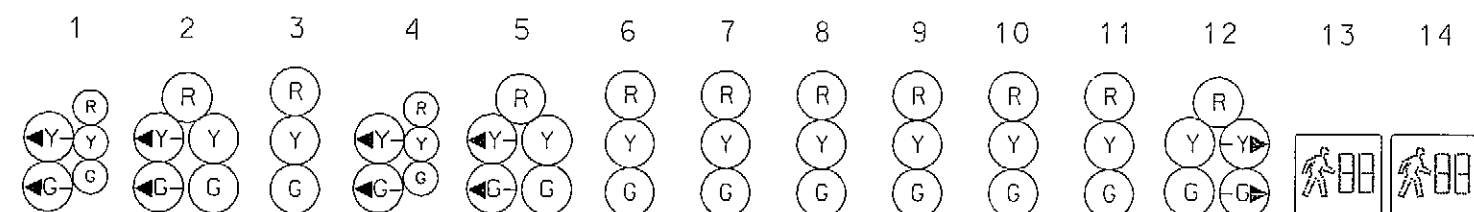
Mr. Mike Huber  
Assistant District Engineer - Utility  
Phone: (410) 841-1039

Mr. Avijit Maji  
Chief, Traffic Operations Division  
Phone: (410) 787-7630

Mr. Ed Rodenhizer  
Manager, Signal Operations Section  
410-787-7652

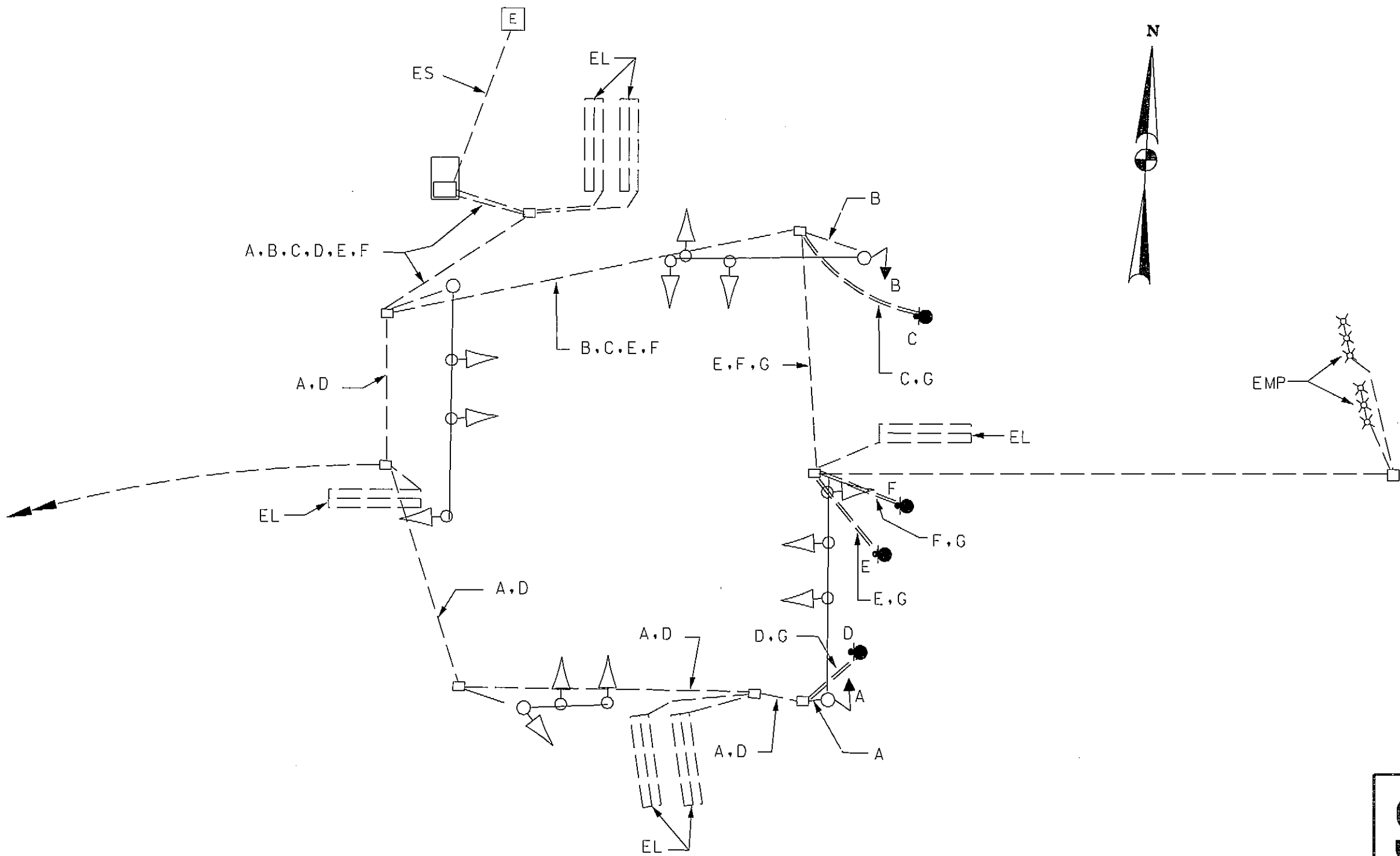
Mr. Sonny Bailey  
Manager, Sign Shop Operations  
410-787-7676

PHASE CHART



PHASE 1 & 5	R	R	R	R	R	R	R	R	R	R	R	R	DW	DW	
CHANGES TO PHASES 1 & 6, 2 & 5 OR 2 & 6															
PHASE 1 & 6	G	G	G	R	R	R	R	R	R	R	R	R	DW	DW	
1 & 6 CHANGE	G	G	G	R	R	R	R	R	R	R	R	R	DW	DW	
PHASE 2 & 5	R	R	R	G	G	G	R	R	R	R	R	R	DW	DW	
2 & 5 CHANGE	R	R	R	G	G	G	R	R	R	R	R	R	DW	DW	
PHASE 2 & 6	G	G	G	G	G	G	R	R	R	R	R	R	DW	DW	
2 & 6 CHANGE	Y	Y	Y	Y	Y	Y	R	R	R	R	R	R	DW	DW	
PHASE 4 & 8	R	R	R	R	R	R	G	G	G	G	G	G	DW	DW	
4 & 8 CHANGE	R	R	R	R	R	R	Y	Y	Y	Y	Y	Y	DW	DW	
PHASE 8 ALT	R	R	R	R	R	R	G	G	G	G	G	G	WK	WK	
PED CLEAR (COUNTDOWN)	R	R	R	R	R	R	G	G	G	G	G	G	FL/DW	FL/DW	
8 ALT CHANGE	R	R	R	R	R	R	Y	Y	Y	Y	Y	Y	DW	DW	
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	DARK	DARK	

WIRING DIAGRAM



WIRING KEY

- A } 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- B } 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- C } 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- D } 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- E } 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- F } 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- G - STANDARD BARE COPPER GROUND WIRE (NO. 6 A.W.G.)
- EL - EXISTING LOOP
- EMP - EXISTING MICROLOOP
- ES - EXISTING UNDERGROUND SERVICE TO BE MAINTAINED BY BGE

TOD NO: XY139-03  
SHA NO: AA189B53  
MD 162, MD 170, MD 176 @ Various Locations



STATE OF MARYLAND  
DEPARTMENT OF TRANSPORTATION  
STATE HIGHWAY ADMINISTRATION  
OFFICE OF TRAFFIC & SAFETY  
TRAFFIC ENGINEERING DESIGN DIVISION  
TERMINAL ROAD AT SCOTT DRIVE/DAILY PARKING ENTRANCE  
HANOVER, MARYLAND

GENERAL INFORMATION SHEET

SCALE 1"= 20'	DATE 2/6/2013	CONTRACT NO. XY1395185
DESIGNED BY A. BEKELE	COUNTY ANNE ARUNDEL	
DRAWN BY A. BEKELE	LOGMILE 02RELM00.17	
CHECKED BY O. GEORGE	TMS NO. L653	
F.A.P. NO.	TOD NO.	
TS NO. 4169B	DRAWING TSP-3 OF 3	SHEET NO. 18 OF 33



O. R. GEORGE & ASSOCIATES, INC.  
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(301) 794-7700